

Title (en)

Process and apparatus for continuously heat treating metal strip in different atmospheres

Title (de)

Durchlaufglühverfahren von Metallband in verschiedenen Schutzgasen und Vorrichtung

Title (fr)

Procédé et installation de traitement thermique en continu de bandes métalliques dans des atmosphères de nature différente

Publication

EP 0795616 B1 20011128 (FR)

Application

EP 97400537 A 19970311

Priority

FR 9603140 A 19960313

Abstract (en)

[origin: EP0795616A1] The continuous thermal treatment of metal strip travelling through a furnace, thermally insulated and in a protective atmosphere. The furnace is made up of at least one section for heating (1), for soaking (2) and for cooling (3). The strip is guided by rollers (6, 6', 6'', 7, 7', 72) arranged in the lower and upper parts of these sections of the furnace, in order to provide strands. The strip passes across at least one insulating device (14) partially or totally positioned at the heart of at least one section or between two sections, in order to assure different thermal transfer properties to the strip with respect to at least one other contiguous section, incorporating a different atmosphere, by acting on the composition of the atmosphere made up of a mixture of gas of which the hydrogen or helium content exceeds 5% and more particularly 15%, in order to allow the differentiation of the thermo-mechanical properties of the atmosphere.

IPC 1-7

C21D 9/56

IPC 8 full level

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CPC (source: EP US)

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Cited by

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